

Nov. 6, 1934.

H. PERLESZ

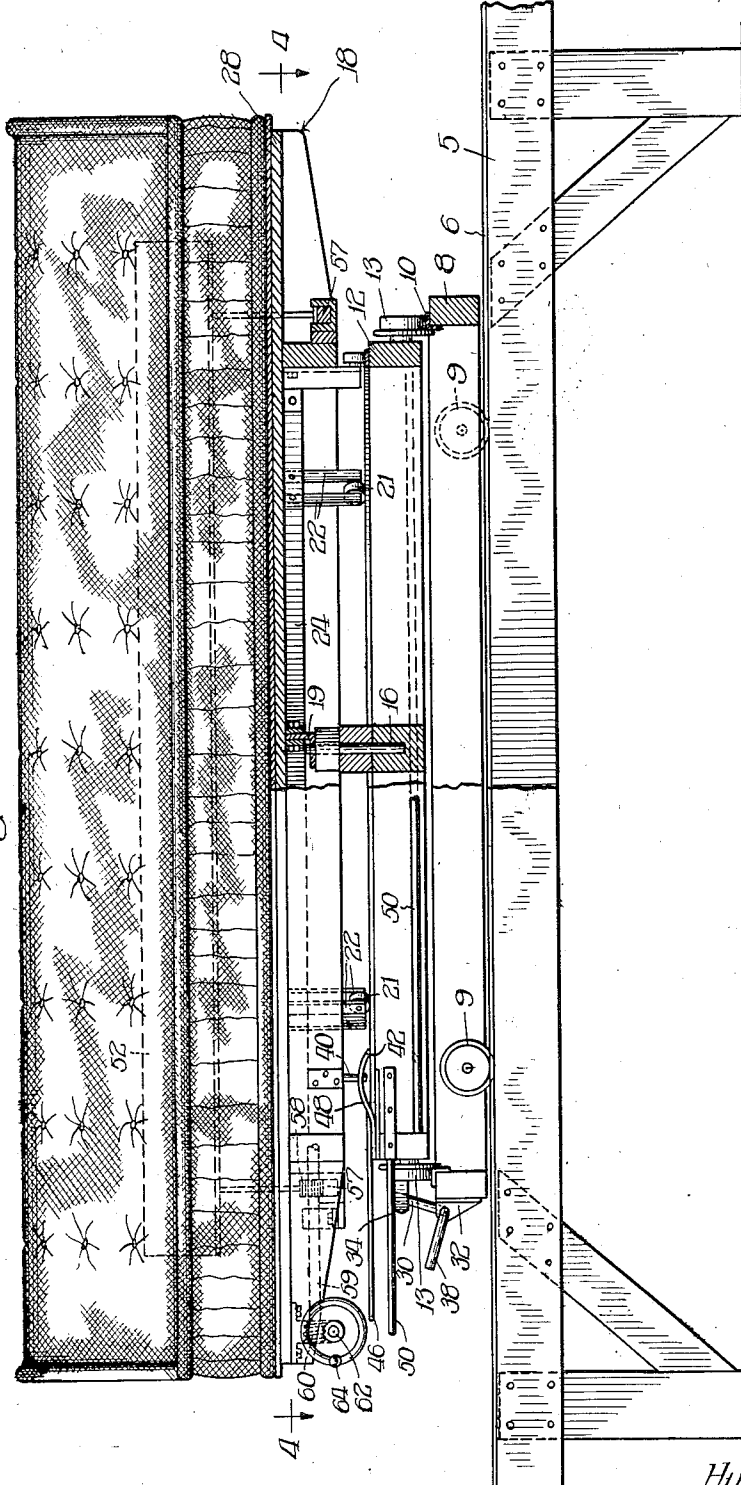
1,979,901

WORKTABLE

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3 Sheets-Sheet 1

Fig. 1



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WORKTABLE

1,979,901

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3 Sheets-Sheet 2

Fig. 2.

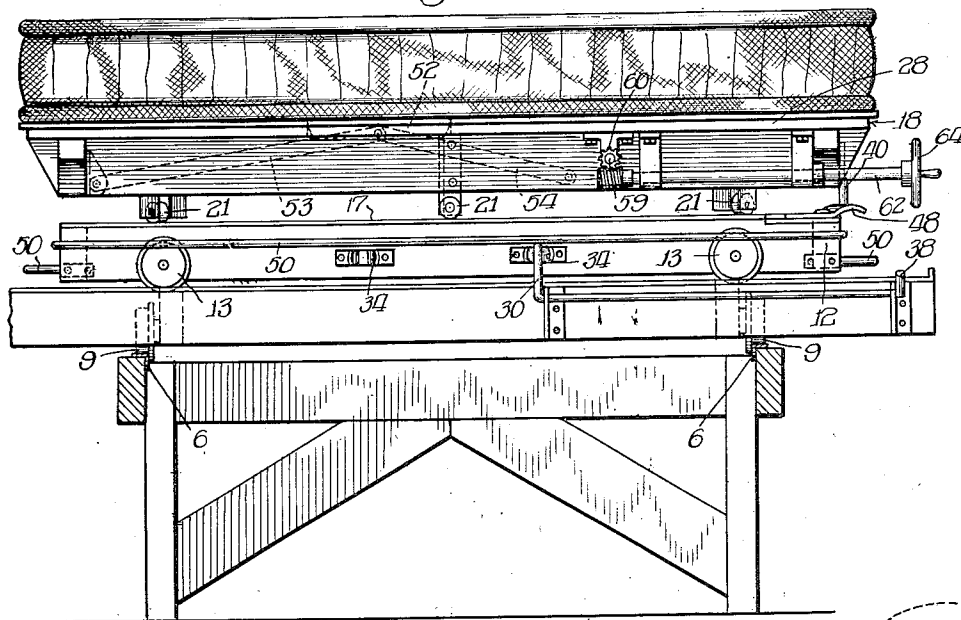
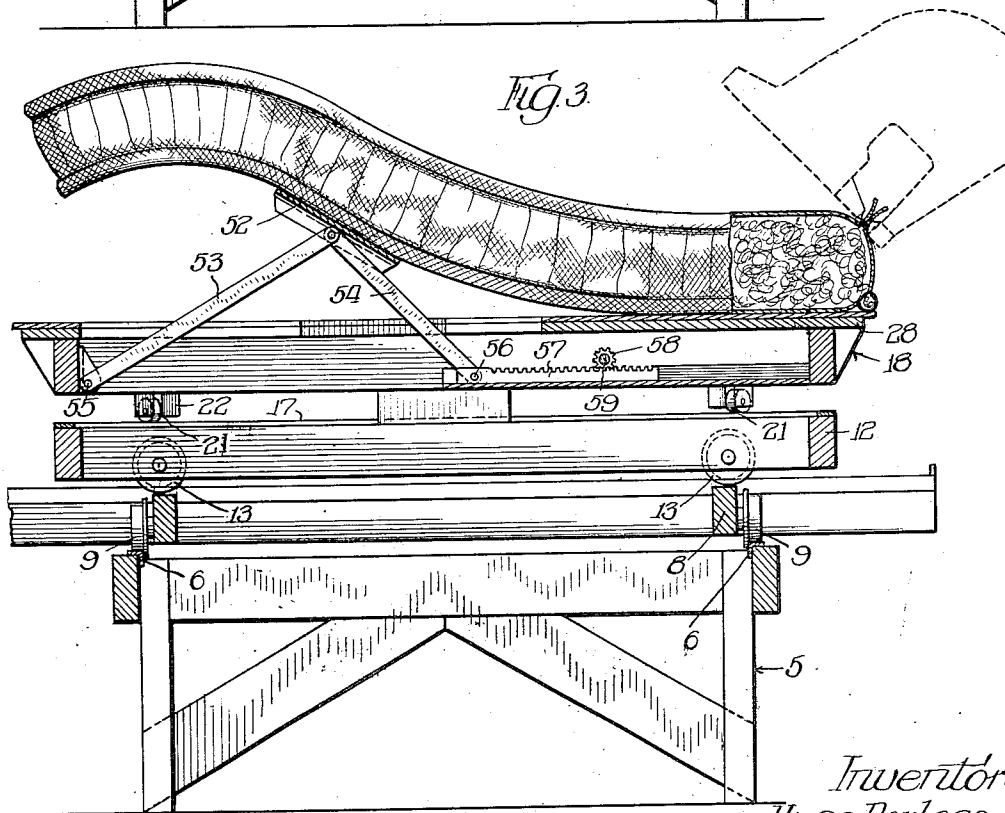


Fig. 3.



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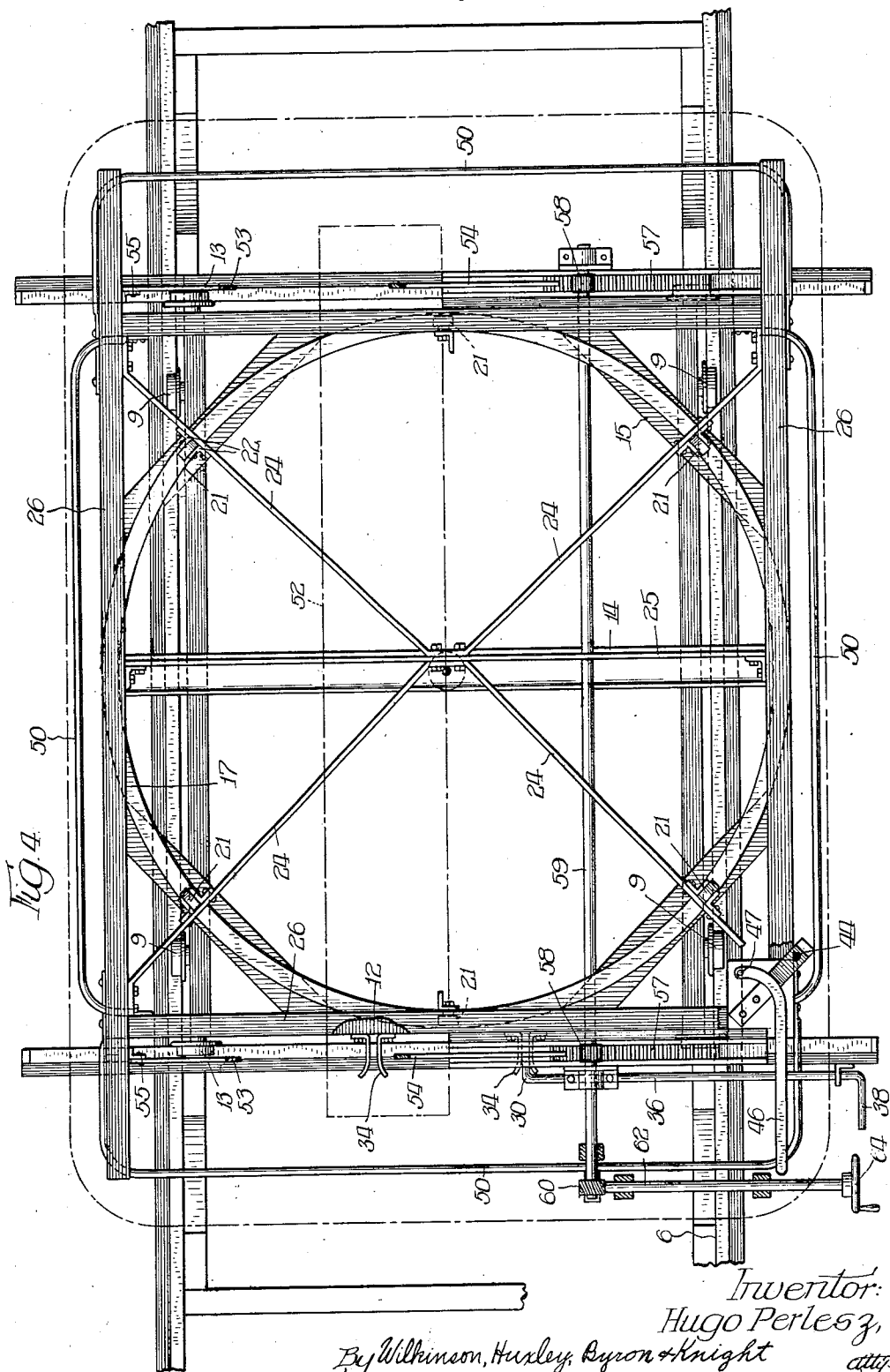
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3 Sheets-Sheet 3



UNITED STATES PATENT OFFICE

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WORKTABLE

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Application July 8, 1932, Serial No. 621,429

13 Claims. (Cl. 112—3)

This invention relates to movable work tables, and in its illustrated form is especially suitable for mattress sewing tables. In this form it may be briefly described as comprising a rotatable table top mounted on an intermediate carriage movable in one direction as to and from the sewing machine, a lower carriage movable in the direction transverse to the first named direction to feed the work to the needle, and bottom stationary tracks for this lower carriage. Also there is preferably provided a lock for preventing each of the movements except the last named. There may also be a section of the table top which is vertically movable for the purpose of taking the tension off of the parts which are being drawn together in the sewing operation.

In the past there have been various attempts to decrease the labor involved in the various sewing operations of closing and completing a mattress. Tables running on tracks in such a manner as to carry the work in a straight line running under the needle have been suggested, but are unsatisfactory because difficulties such as that of turning the mattress around to sew the corners and other parts thereof have not been overcome. Another attempt to meet the problem has involved mounting the sewing machine in such a manner that it could move around a stationary mattress table. This is unsatisfactory on account of the complicated mechanism necessary, necessitating high original costs, and also on account of the non-adaptability of the device. By his invention, applicant has solved this long felt problem by providing a table which permits the operator to move the mattress in any direction with ease, and with practically no loss of operating time. Applicant's table has the additional advantages that it is extremely cheap in construction, and that it is provided with means for taking the tension off of the parts of the mattress cover that are to be sewed together.

With these and various other objects in view, the invention may consist of certain novel features of construction and operation, as will be more fully described and particularly pointed out in the specification, drawings and claims appended hereto.

In the drawings, which illustrate an embodiment of the device, and wherein like reference characters are used to designate like parts,

Figure 1 is a side elevation of applicant's table showing a mattress in position thereon;

Figure 2 is an elevation of the same showing the mattress in another position;

Figure 3 is a sectional view of the table show-

ing the means for raising a part of the mattress, and illustrating the cooperative relation between the table and sewing machine; and

Figure 4 is a horizontal sectional view taken along the line 4—4 of Figure 1.

Although my invention may take many forms, only one has been chosen for illustration. In this form, the table comprises a base 5 carrying parallel tracks 6. Mounted to run on track 6 is a lower carriage 8 on which are mounted the wheels 9 which engage the track 6. The carriage 8 is preferably a simple frame structure bearing parallel tracks 10 which extend at right angles to tracks 6. Both the tracks 6 and the tracks 10 may desirably comprise a single angle iron, as illustrated. Mounted to run on the tracks 10 is an intermediate carriage 12 which is supported by the wheels 13 which engage the tracks 10. All of the wheels 9 and 13 are preferably flanged, as shown. The carriage 12 includes a center beam 14 and corner beams 15 in addition to its outside frame members. The center beam carries a king-pin 16, while the frame member, together with the corner beams, carries a circular track 17. Rotatably mounted on the carriage 12 is the table top 18. Secured at the center of the table top is the king-pin bearing 19, which is mounted on the king-pin, as shown. Also attached to the table top 18 is a plurality of rollers 21 which ride on a circular track 17 to carry the weight of the table. Each of the rollers 21 is trunnioned between a pair of legs 22 which are secured to a metallic member 24. The king-pin bearing 19 is likewise secured to said metallic members. These metallic members 24, together with another metallic member 25 and the side members 26 are securely bolted together to form an underframe for supporting and reinforcing the surface members 28 on the table top 18. This particular table top construction is of course only one form out of any number that would be satisfactory.

With the construction thus far described the table top may be freely turned on its king-pin and may be moved in one direction with the carriage 12 and in a direction at right angles thereto with the carriage 8. These three movements permit every possible horizontal movement of the mattress or other work.

It is, however, desired at times to lock the table against one or more movements, so that it may be moved only in the proper direction for feeding the work to the sewing machine. With the sewing machine in the position of Figure 3, this feeding position would normally be the di-

resection of movement of the carriage 8 along the track 6. In order to prevent the linear movement at right angles to the feeding movement, a knife lock 30 is provided pivotally mounted in the brackets 32, on table 8. A plurality of co-operating locking sockets 34 are provided on the table 12 in suitable positions for locking any part of the table adjacent the machine. Thus in the form illustrated one lock socket has been provided for locking the table with a side adjacent the sewing machine and another lock socket has been provided for holding the table a little farther out so that an end may be adjacent the sewing machine. For convenience, the knife lock 30 is carried at one end of the shaft 36, at the other end of which is provided a handle 38, which is readily accessible from the position of the operator.

In order to lock the table against rotative movement, it may be provided with a plurality of pegs 40, each of which is arranged so that when the table is in a given position the peg will cooperate with a spring latch 42 to latch the table against rotary motion. The spring latch member 42 is provided with a hole 44 adapted to receive the peg 40 as the latter slides into position. In order to release the peg 40 there is provided a lever 46 pivoted to the carriage 12 as at the point 47, and arranged in such manner that upon being operated it will cooperate with the hump 48 of the spring latch 42 to press the latter out of engagement with the peg 40. It is preferred that one peg 40 be located at each corner of the table so as to lock the table against rotation each time that one side is squared up with the machine.

To further facilitate handling the table, there may be provided a plurality of handles 50 extending the length of each side of the table.

It has been found that in initially closing the cover of a large mattress, it is frequently difficult to draw the cover as tightly as is desired. To facilitate this process, a section 52 of the table top may be made separable, and there may be provided suitable means for raising this separable portion to so bend the mattress as to relieve the tension from the parts to be sewed together in closing the mattress. For example, the section 52 of the table top may be supported pivotally on two pairs of pivoted rods 53 and 54. The rods 53 may be pivoted at a fixed point 55 to the frame of the table top, and the rods 54 may be pivoted at the points 56 to a rack 57 slidably mounted on the frame of the table top. One such set of pivoted rods, with its associated sliding rack is located at each end of the table, and each rack is controlled by a pinion 58, the two pinions being mounted on a common shaft 59, which is suitably journaled on the table top. The shaft 59 is rotated through worm gear 60 by shaft 62 likewise suitably journaled on the table top, and provided with a suitable handle 64.

In using this new work table, the operator may place the mattress on the table, and thereafter readily move the table in any desired manner to sew any portion of the mattress. For example, the operator may first align the open side of the mattress with the sewing machine, locking the table against all movements except the feeding movement. She may then begin at one end of this side and sew continually to the other end, operating the handle 64 to flex the mattress and remove the tension from the parts being sewed, if desired. Upon reaching the curved corner portion she may release the two locks and easily turn the mattress so as to feed it to the machine

to sew around the corner. As the table top latches with the end adjacent the machine, the operator may turn the handle 38 to lock the table against any movement but a feeding movement and proceed to sew along the end. In this manner, the operator may proceed to sew entirely around the mattress if desired.

It is to be understood that many other embodiments of the invention, including some in improved form, will be apparent, and in the course of time more will be devised by those skilled in the art. It is not desired that this invention be limited to the details described, for its scope includes all such forms or improvements as come within the spirit of the following claims, construed as broadly as the prior art will permit.

What is claimed is:

1. A work table comprising stationary tracks, with a lower carriage movable on said tracks, an upper carriage carried by said first carriage and movable with respect thereto in a direction transverse to the direction of movement of said lower carriage, a table top substantially free from upstanding members thereon supported by said upper carriage and rotatable with respect thereto, and means for latching said upper carriage to prevent its movement with respect to said lower carriage.

2. A work table comprising stationary tracks with a lower carriage movable on said tracks, an upper carriage carried by said first carriage and movable with respect thereto in a direction transverse to the direction of movement of said lower carriage, a table top substantially free from upstanding members thereon supported by said upper carriage and rotatable with respect thereto, and means to lock said upper carriage in a plurality of positions with respect to said lower carriage.

3. A work table comprising stationary tracks with a lower carriage movable on said tracks, an upper carriage carried by said first carriage and movable with respect thereto in a direction transverse to the direction of movement of said lower carriage, a table top substantially free from upstanding members thereon supported by said upper carriage and rotatable with respect thereto, and means to latch said work carrying means against rotative movement.

4. A work table comprising stationary tracks with a lower carriage movable on said tracks, an upper carriage carried by said first carriage and movable with respect thereto in a direction transverse to the direction of movement of said lower carriage, a table top substantially free from upstanding members thereon supported by said upper carriage and rotatable with respect thereto, and a snap latch effective when said work carrying means is in any one of a plurality of definite positions with respect to said upper table.

5. A work table comprising stationary tracks with a lower carriage movable on said tracks, an upper carriage carried by said first carriage and movable with respect thereto in a direction transverse to the direction of movement of said lower carriage, and a table top substantially free from upstanding members thereon supported by said upper carriage, and rotatable with respect thereto, and locking means for preventing all movement of said work carrying means with respect to said lower carriage.

6. The combination of a sewing machine and a work table adjacent thereto, said work table comprising stationary tracks, a lower carriage movable on said tracks with a feeding movement in

a direction for feeding work to said sewing machine, an upper carriage movable with respect to said lower carriage in a direction transverse to its movement, a table top substantially free from upstanding members thereon rotatable with respect to said upper carriage, and locking means for preventing all movement except said feeding movement.

7. The combination of a sewing machine and a work table adjacent thereto, said work table comprising stationary tracks, a lower carriage movable on said tracks in a direction for feeding work to said sewing machine, an upper carriage movable with respect to said lower carriage in a direction transverse to its movement, a table top substantially free from upstanding members thereon rotatable with respect to said upper carriage, and locking means for preventing optionally either of said movements and both of said movements except said feeding movement.

8. Mattress sewing apparatus including the combination of a sewing machine and a work table adjacent thereto, said work table comprising stationary tracks, a lower carriage movable on said tracks in a direction for feeding work to said sewing machine, an upper carriage movable with respect to said lower carriage in a direction transverse to its movement, a table top substantially free from upstanding members thereon rotatable with respect to said upper carriage, and means for so distorting a mattress carried by said table as to remove the tension from the parts of said mattress adjacent the sewing machine.

9. Mattress sewing apparatus including the combination of a sewing machine and a work table adjacent thereto, said work table comprising stationary tracks, a lower carriage movable on said tracks in a direction for feeding work to said sewing machine, an upper carriage movable with respect to said lower carriage in a direction transverse to its movement, a table top rotatable with respect to said upper carriage, and means for raising a portion of said table top with respect to the remainder thereof to remove the tension from the parts of a mattress thereon adjacent the sewing machine.

10. Mattress sewing apparatus including a

work table comprising stationary tracks with a lower carriage movable on said tracks, an upper carriage carried by said first carriage and movable with respect thereto in a direction transverse to the direction of movement of said lower carriage, a work carrying member supported by said upper carriage and rotatable with respect thereto, and means for raising a portion of said table top with respect to the remainder thereof to remove the tension from the parts of a mattress thereon adjacent the sewing machine.

11. The combination of a sewing machine and a work table comprising a pair of tracks; a lower carriage comprising a hollow frame carrying wheels running on said tracks, and carrying tracks extending transversely to said first named tracks; an upper carriage comprising a hollow frame and carrying wheels running on said second named tracks, and carrying a king-pin, and a circular track; and a table top substantially free from upstanding members thereon carrying a bearing mounted on said king-pin, and carrying wheels running on said circular track; said table top being located above all said mechanism except the sewing machine.

12. The combination of a sewing machine and a work table comprising a pair of tracks; a lower carriage carrying wheels running in said tracks, and carrying tracks extending transversely to said first named tracks; an upper carriage carrying wheels running on said second named tracks; and a table top substantially free from upstanding members thereon carried by and rotatable on said upper carriage; said table top being located above all said mechanism except the sewing machine.

13. Mattress sewing apparatus including the combination of a sewing machine and a work table adjacent thereto, said work table comprising a table top relatively movable with respect to said sewing machine, and means for raising a portion of said table top with respect to the remainder thereof to remove the tension from the parts of a mattress thereon adjacent the sewing machine by distortion of said mattress.

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